

REMARKS

The Office Communication states that Applicants and the Assignee are required under 37 C.F.R. § 1.105 to provide the Examiner with a listing of all applications that Applicants have filed that claim the instant sequences either as discrete SEQ ID NOs or as fragments of larger sequences in any methods of administration and/or treatment. Accordingly, Applicants provide herewith the following list of patents and applications:

1. U.S. Patent No. 5,602,096
2. U.S. Patent No. 6,194,377
3. U.S. Patent No. 6,204,241
4. U.S.S.N. 08/472,065
5. U.S.S.N. 08/735,010
6. U.S.S.N. 08/471,833
7. U.S.S.N. 08/736,019
8. U.S.S.N. 08/736,070
9. U.S.S.N. 08/461,097
10. U.S.S.N. 08/411,295
11. U.S.S.N. 09/530,884
12. U.S.S.N. 09/298,121
13. U.S.S.N. 08/468,731

In addition, the Examiner requests that Applicants identify which SEQ ID NOs recited in the claims of the above-listed patents and applications correspond to which SEQ ID NOs currently being recited in the claims of the present application. Further, the Examiner requests that if fragments of larger sequences are being used, Applicants identify these sequences or subsequences by amino acid residue or nucleotide numbering. In response, Applicants have provided Tables 1-13, corresponding to the 13 patents and applications listed above, which indicate the SEQ ID NOs present in the claims of those patents or applications that are equivalent to, or which comprise, the amino acid or nucleic acid sequence designated by the SEQ ID NOs recited in the present claims.

Applicants provide the above list of patents and applications and Tables 1-13 with candor and good faith as required under 37 C.F.R. § 1.56, and submit that the information provided satisfies the Examiner's request. By providing the list and tables, Applicants and the Assignees are not acknowledging that any double patenting issues, beyond those of record, exist, nor are Applicants and the Assignees acknowledging that the list and tables are reasonably necessary to examine the matter, as required by 37 C.F.R. § 1.105(a)(1).

CONCLUSION

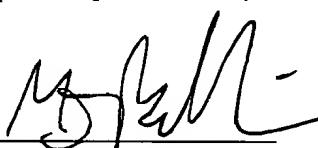
Given that the present application has been pending since October 22, 1996, Applicants respectfully request that the Examiner contact the undersigned by telephone if there are any additional issues so that such issues may be resolved promptly.

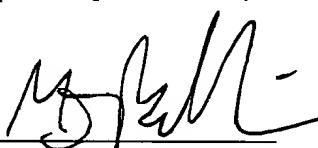
Enclosed is a petition to extend the period for replying to the Office Communication for one month, to and including July 8, 2003, and please charge the fee of \$55.00 required by 37 C.F.R. § 1.17(a) to Deposit Account No. 03-2095.

If there are any additional charges or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date: 7/8/03


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Table I

CLAIM NO.	U.S. Serial No. 08/734,592 RECITED SEQUENCE (SEQ ID NO:)	U.S. Patent No. 5,602,096	
		IDENTICAL TO THE RECITED SEQUENCE	COMPRISSES THE RECITED SEQUENCE
SEQ ID NO:	RECITED IN CLAIM NO.	SEQ ID NO:	RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	-	-
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	-	-
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	-	-
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	-	-
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	-	-
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	-	-

Table 2

U.S. Serial No. 08/734,592		U.S. Patent No. 6,194,377	
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO.)	IDENTICAL TO THE RECITED SEQUENCE COMPRISSES THE RECITED SEQUENCE	
		SEQ ID NO: RECITED IN CLAIM NO.	SEQ ID NO: RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	152 1, 12	191* (n.t. 1-150) -
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	155 21, 22	-
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	156 21, 22	-
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	157 21, 22	-
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	158 21, 22	-
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	159 21, 22	-

*SEQ ID NO: 191 is identical to SEQ ID NO: 152 except that the amino acid at position 15 of SEQ ID NO: 191 is an asparagine instead of a glutamine.

Table 3

U.S. Serial No. 08/734,592	U.S. Patent No. 6,204,241		
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO:)	IDENTICAL TO THE RECITED SEQUENCE	COMPRISSES THE RECITED SEQUENCE
SEQ ID NO:	RECITED IN CLAIM NO.	SEQ ID NO:	RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	-	-
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	-	-
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	-	-
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	-	-
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	-	-
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	-	-

Table 4

U.S. Serial No. 08/734,592		U.S. Serial No. 08/472,065	
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO.)	IDENTICAL TO THE RECITED SEQUENCE	COMPRIMES THE RECITED SEQUENCE
SEQ ID NO.	RECITED IN CLAIM NO.	SEQ ID NO:	RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	- -	(224 or 232) + 152 (a.a. 1-50 of 152) (224 or 232) + 226* (a.a. 1-50 of 226) 190 (a.a. 13-62) 230 (a.a. 13-62) 192 (a.a. 362-411) 194 (a.a. 396-445) 210-213 (a.a. 362-411) 218-220 (a.a. 362-411) 196-199 (a.a. 396-445) 204-206 (a.a. 396-445)
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	- -	210-212 (a.a. 358-420) 196-198 (a.a. 392-454)
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	- -	214-216 (a.a. 358-417)
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	- -	200-202 (a.a. 392-451)
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	- -	-
132, 138	159 a.a. 9-42 of C + C/D-C/D'+ a.a. 1-6 of H	- -	-

*SEQ ID NO: 226 is identical to SEQ ID NO: 150 except that the amino acid at position 15 of SEQ ID NO: 226 is an asparagine instead of a glutamine.

Table 5

U.S. Serial No. 08/734,592		U.S. Serial No. 08/735,010	
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO.)	IDENTICAL TO THE RECITED SEQUENCE	COMPRIMES THE RECITED SEQUENCE
		SEQ ID NO:	RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	-	188 (a.a. 13-62)
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	-	133-137
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	-	-
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	-	-
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	-	-
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	-	-

Table 6

U.S. Serial No. 08/734,592		U.S. Serial No. 08/471,833			
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO.)	IDENTICAL TO THE RECITED SEQUENCE		COMPRIMES THE RECITED SEQUENCE	
		SEQ ID NO.	RECITED IN CLAIM NO.	SEQ ID NO.	RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	150	145	192 (a.a. 13-62)	141; 197
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	155	145; 162	-	-
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	156	145; 162	190 (a.a. 9-68)	195; 199
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	157	145; 162	-	-
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	158	145; 162	-	-
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	159	145; 162	-	-

Table 7

U.S. Serial No. 08/734,592		U.S. Serial No. 08/736,019	
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO.)	IDENTICAL TO THE RECITED SEQUENCE	COMPRIMES THE RECITED SEQUENCE
		SEQ ID NO:	RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	150: a.a. 54-103 encoding n.t. 161- 310 of SEQ ID NO; 150	132
			141; 143
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	155	132
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	156	132
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	157	132
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	158	132
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	159	132

Table 8

U.S. Serial No. 08/734,592		U.S. Serial No. 08/736,070	
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO.)	IDENTICAL TO THE COMPRIMES THE RECITED SEQUENCE RECITED SEQUENCE	
		SEQ ID NO: CLAIM NO.	SEQ ID NO: CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	-	192 (a.a. 13-62) 194 (a.a. 362-411)
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	-	-
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	-	190 (a.a. 9-68)
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	-	145; 149
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	-	-
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	-	-

Table 9

U.S. Serial No. 08/734,592		U.S. Serial No. 08/461,097	
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO:)	IDENTICAL TO THE RECITED SEQUENCE	COMPRIMES THE RECITED SEQUENCE
		SEQ ID NO:	RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	-	-
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	-	-
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	-	-
132, 138	157 a.a. 9-42 of C + C/D',D + a.a. 1-6 of H	-	-
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	-	-
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	-	-

Table 10

U.S. Serial No. 08/734,592		U.S. Serial No. 08/411,295	
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO:)	IDENTICAL TO THE RECITED SEQUENCE	COMPRISSES THE RECITED SEQUENCE
		SEQ ID NO:	RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a 1-20 of C/D	-	-
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	-	-
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	-	-
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	-	-
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	-	-
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	-	-

Table 11

CLAIM NO.	RECITED SEQUENCE (SEQ ID NO:)	IDENTICAL TO THE RECITED SEQUENCE	COMPRIMES THE RECITED SEQUENCE
SEQ ID NO:	RECITED IN CLAIM NO.	SEQ ID NO:	RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	49 51	11 11
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	-	-
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	-	-
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	-	-
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	-	51 (n.t. 577-840) 11
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	-	-

Table 12:

U.S. Serial No. 08/734,592		U.S. Serial No. 09/298,121	
CLAIM NO.	RECITED SEQUENCE (SEQ ID NO:)	IDENTICAL TO THE RECITED SEQUENCE	COMPRIMES THE RECITED SEQUENCE
		SEQ ID NO: RECITED IN CLAIM NO.	SEQ ID NO: RECITED IN CLAIM NO.
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	-	-
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	-	-
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	-	-
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	-	-
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	-	-
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	-	-

Table 13

CLAIM NO.	U.S. Serial No. 08/734,592	U.S. Serial No. 08/468,731	
	RECITED SEQUENCE (SEQ ID NO:)	IDENTICAL TO THE RECITED SEQUENCE	COMPRIMES THE RECITED SEQUENCE
	SEQ ID NO:	RECITED IN CLAIM NO.	SEQ ID NO:
132, 141	152 a.a 13-42 of C + a.a. 1-20 of C/D	152 150: (a.a. 54-103 encoded by n.t. 161-310)	101-103; 108-110 101-103; 108-110
132, 138	155 a.a. 9-42 of C + C/D + a.a. 1-6 of H	415	91; 92
132, 138	156 a.a. 9-42 of C + C/D' + a.a. 1-6 of H	416	93; 94
132, 138	157 a.a. 9-42 of C + C/D'-D + a.a. 1-6 of H	417	95; 96
132, 138	158 a.a. 9-42 of C + C/D-C/D'-D	418	97; 98
132, 138	159 a.a. 9-42 of C + C/D-C/D' + a.a. 1-6 of H	419	99; 100